LISTING OF THE CLAIMS

Claim 1 **(currently amended)** A method for the production of a single heavy chain antibody in a non-human mammal comprising the step of expressing a heterologous VHH heavy chain locus in that mammal specifically in B cells in response to antigen challenge, wherein the VHH heavy chain locus comprises:

(a) at least one ~~VHH region each comprising one~~ VHH exon, at least one ~~D region each comprising one~~ D exon and at least one ~~J region each comprising one~~ J exon, wherein the VHH exon~~region~~, the D exon~~region~~ and the J exon~~region~~ are capable of recombining to form VDJ coding sequence,

(b) a constant heavy chain region comprising at least one Cμ constant heavy chain gene and at least one of Cγ, Cα, Cε, or Cδ constant heavy chain gene, wherein each of said constant heavy chain genes, when expressed, does not express a functional CH1 domain,

(c) a regulatory sequence providing for expression of the VHH heavy chain locus specifically in B cells ~~and~~

~~which locus when expressed leads to the formation of a single heavy chain antibody~~

said method comprising:

1) immunizing said mammal with an antigen and

2) isolating single heavy chain antibody against said antigen from said mammal.

Claim 2 **(canceled)**

Claim 3 **(currently amended)** A method for the production of a single heavy chain antibody in a non-human mammal comprising the step of expressing a camelised VH heavy chain locus in that mammal specifically in B cells in response to antigen challenge, wherein the

camelised VH heavy chain locus comprises:

(a) at least one ~~VH region each comprising one~~ VH exon which is mutated such that, when expressed, the resulting single heavy chain antibody is stabilised, at least one ~~D region each comprising one~~ D exon and at least one ~~J region comprising one~~ J exon, wherein the VH exon~~region~~, the D exon~~region~~ and the J exon~~region~~ are capable of recombining to form VDJ coding sequence, and

(b) a constant heavy chain region comprising at least one Cμ constant heavy chain gene and at least one of Cγ, Cα, Cε, or Cδ constant heavy chain gene, wherein each of said constant heavy chain genes, when expressed, does not express a functional CH1 domain,

(c) a regulatory sequence providing for expression of the VHH heavy chain locus specifically in B cells ~~and~~

~~which locus when expressed leads to the formation of a single heavy chain antibody~~

said method comprising:

1) immunizing said mammal with an antigen and

2) isolating single heavy chain antibody against said antigen from said mammal.

Claims 4 – 6 **(canceled)**

Claim 7 **(currently amended)** A method according to claim 1 wherein the VHH single heavy chain locus comprises a camelid VHH, at least one D exon~~region~~ of human origin and at least one J exon~~region~~ of human origin and a constant region of human origin.

Claim 8 **(currently amended)** A method according to claim 3 wherein the camelised VH heavy chain locus comprises at least one D exon~~region~~ of human origin and at least one J exon~~region~~ of human origin and a constant region of human origin.

Claim 9 **(canceled)**

Claim 10 **(currently amended)** A method according to claim 1 or [[2]] 3 wherein the constant heavy chain region comprises at least one constant region heavy chain gene which is of non-camelid origin.

Claim 11 **(original)** A method according to claim 10 wherein at least one constant region heavy chain gene is of human origin.

Claims 12 – 16 **(canceled)**

Claims 17 -32 **(canceled)**

Claim 33 **(previously presented)** The method of claim 1 wherein the entire VHH single heavy chain locus is of camelid origin

Claim 34 **(previously presented)** The method of claim 3 wherein the camelised VH single heavy chain locus is of human origin.

Claim 35 **(previously presented)** The method of claim 3 wherein the camelised VH single heavy chain locus is of non-human origin.

Claim 36 **(previously presented)** The method of claim 3 wherein the camelised VH single heavy chain locus is of camelid origin.

Claims 37 -38 **(canceled)**

Claim 39 **(new)** The method according to claim 1 or 3 wherein the non-human mammal is a rodent.

Claim 40 **(new)** The method according to claim 1 or 3 wherein the regulatory sequence is a locus control region.